

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: io LED

Report Number: P170474

Luminaire Tested: **LDA4A13930D010TE LAR35FL 4LA1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P170474  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25630)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA4A13930D010TE LAR35FL 4LA1  
Description: PORTFOLIO 4" Adjustable Reflector, Self-flange Trim Ring, 35° Flood Optic, at 0° tilt  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1178.6 lumens  
Efficiency: N/A  
Efficacy: 52.9 lumens/watt  
Spacing Criteria (0/90/45): 0.56 / 0.56 / 0.54  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

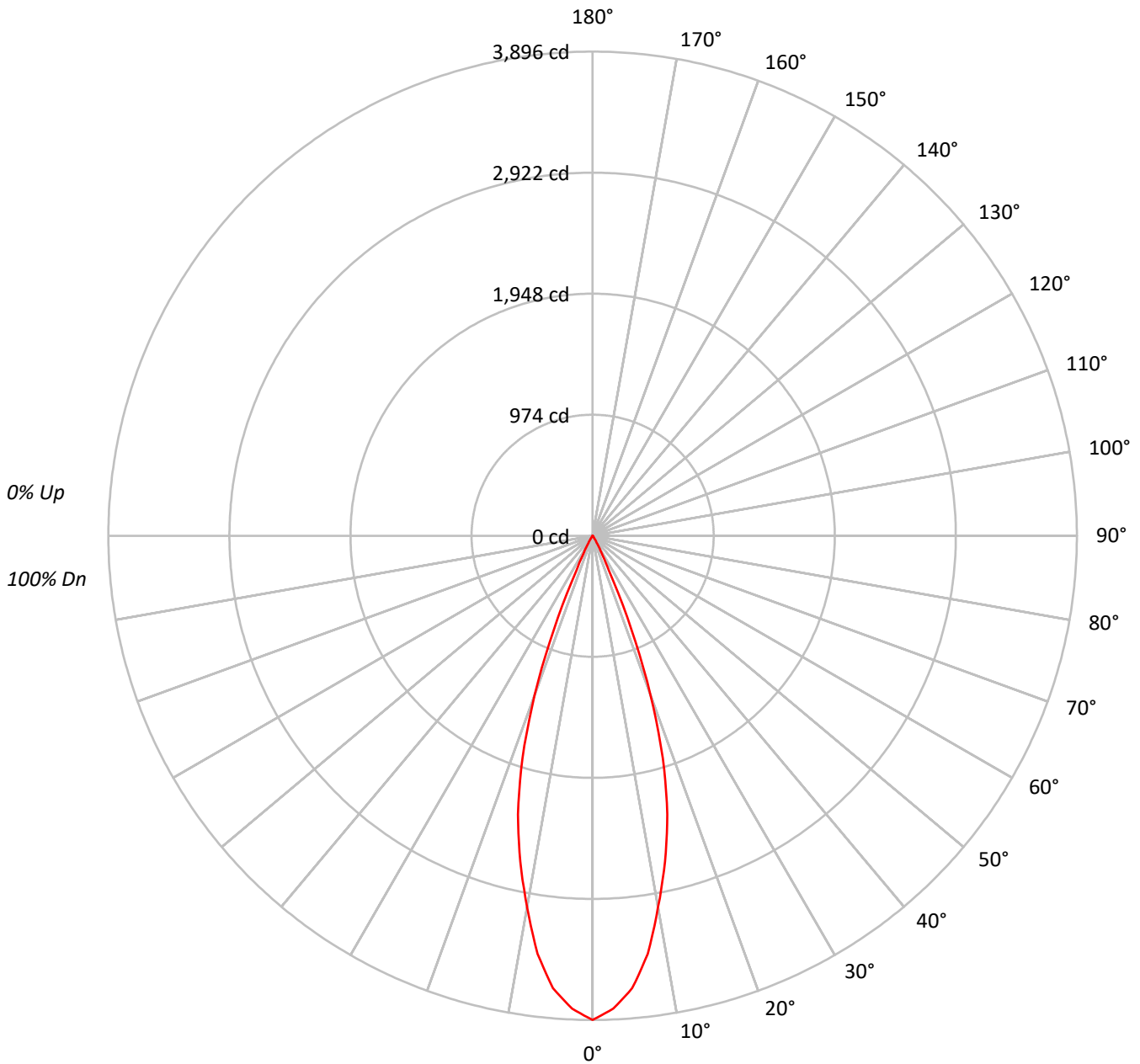
Input Watts (W): 22.27  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	115	113	111	109	113	111	109	107	107	105	104	103	102	101	100	99	98	97
2	111	108	104	102	109	106	103	101	103	101	99	100	98	97	97	96	95	93
3	108	103	99	96	106	102	98	96	99	96	94	97	95	93	95	93	91	90
4	104	99	95	92	103	98	94	91	96	93	90	94	91	89	92	90	88	87
5	101	95	91	88	100	94	90	87	93	89	87	91	88	86	90	87	85	84
6	98	92	87	84	97	91	87	84	90	86	84	88	85	83	87	85	83	81
7	95	88	84	81	94	88	84	81	87	83	81	86	83	80	85	82	80	79
8	92	86	81	78	91	85	81	78	84	81	78	83	80	78	82	80	77	76
9	90	83	79	76	89	82	79	76	82	78	76	81	78	75	80	77	75	74
10	87	80	76	74	86	80	76	73	79	76	73	79	75	73	78	75	73	72

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	480542
5°	452464
10°	380079
15°	296371
20°	178910
25°	41455
30°	10853
35°	2575
40°	853
45°	227
50°	134
55°	151
60°	173
65°	0
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	329.1	27.9
10°-20°	619.9	52.6
20°-30°	212.2	18.0
30°-40°	15.1	1.3
40°-50°	1.4	0.1
50°-60°	0.6	0.1
60°-70°	0.3	0.0
70°-80°	0.0	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1161.2	98.5
0°-40°	1176.3	99.8
0°-60°	1178.4	100.0
0°-90°	1178.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1178.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3896	
5°	3654	329
15°	2321	620
25°	305	212
35°	17	15
45°	1	1
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3895.9
2.5°	3808.6
5°	3654.3
7.5°	3393.0
10°	3034.6
12.5°	2686.6
15°	2320.9
17.5°	1877.1
20°	1363.0
22.5°	814.1
25°	304.6
27.5°	148.4
30°	76.2
32.5°	34.1
35°	17.1
37.5°	9.2
40°	5.3
42.5°	2.6
45°	1.3
47.5°	0.7
50°	0.7
52.5°	0.7
55°	0.7
57.5°	0.7
60°	0.7
62.5°	0.7
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)